

COC # 152

11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
East 11115 Montgomery, Suite B, Spokane, WA 99206-4776  
9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132  
20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

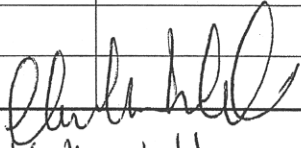
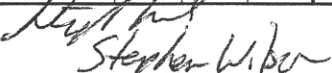
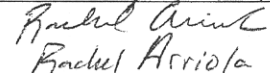
(425) 420-9200 FAX 420-9210  
(509) 924-9200 FAX 924-9290  
(503) 906-9200 FAX 906-9210  
(541) 383-9310 FAX 382-7588

## CHAIN OF CUSTODY REPORT

Work Order #:

150207

CLIENT: Bristol		INVOICE TO: Bristol		<b>TURNAROUND REQUEST in Business Days*</b> Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10</div><div>7</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>&lt;1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div>&lt;1</div> </div> STD. <span style="border: 1px solid black; padding: 2px;">OTHER</span> Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>																							
REPORT TO: Anne Krannwetter		P.O. NUMBER: 21090																									
ADDRESS: Amchitka Island, AK		PROJECT NAME: Amchitka		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="10">REQUESTED ANALYSES</th> </tr> <tr> <th>DETO/REDO</th> <th>PAHs/PCBs</th> <th>Metals</th> <th>LEAD/BTEX</th> <th>VOC</th> <th></th><th></th><th></th><th></th><th></th> </tr> </table>				REQUESTED ANALYSES										DETO/REDO	PAHs/PCBs	Metals	LEAD/BTEX	VOC					
REQUESTED ANALYSES																											
DETO/REDO	PAHs/PCBs	Metals	LEAD/BTEX	VOC																							
PHONE: 907 770-0974 FAX: 770-0975		PROJECT NUMBER: 21090																									
SAMPLED BY: Ckm / DJV																											
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	DETO/REDO	PAHs/PCBs	Metals	LEAD/BTEX	VOC																					
1. DIAM F9U01SL	7/5/01	X	X	X																							
2. DIAM F9U02SL	7/5/01	X	X	X																							
3. DIAM F9U03SL	7/5/01	X	X	X																							
4. DIAM F9U04SL	7/5/01	X	X	X																							
5. DIAM F9U05SL	7/5/01	X	X	X																							
6. DIAM F9U06SL	7/5/01	X	X	X																							
7. DIAM F9U07SL	7/5/01					X																					
8.																											
9.																											
10.																											
11.																											
12.																											
13.																											
14.																											
15.																											

RELINQUISHED BY: 	DATE: 7/5/01	RECEIVED BY: 	DATE: 7/5/01
PRINT NAME: Charlie Marshall FIRM: Bristol	TIME: 1555	PRINT NAME: Stephen Wiber FIRM: NCA	TIME: 1555
RELINQUISHED BY:	DATE:	RECEIVED BY: 	DATE: 7/6/01
PRINT NAME:	TIME:	PRINT NAME: Rachel Arriola FIRM: NCA	TIME: 18:37
ADDITIONAL REMARKS:			TEMP: 5.1
COC REV 3/99			PAGE OF



**Seattle** 1177 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
425 425.4200 fax 425.420.9210  
**Spokane** East 15 Montgomery, Suite B, Spokane, WA 99206-4776  
509.924.9200 fax 509.924.9290  
**Portland** 9405 SW Nimbus Avenue, Beaverton, OR 97008-7132  
503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

31 July, 2001

Anne Krarawetter  
Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/06/01 18:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jerry Orlando  
Project Manager/QA

Work Orders included in this report:

**P1G0207**

Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Reported:**  
07/31/01 12:38


### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMF9U01SL	P1G0207-01	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U02SL	P1G0207-02	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U03SL	P1G0207-03	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U04SL	P1G0207-04	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U05SL	P1G0207-05	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U06SL	P1G0207-06	Soil	07/05/01 12:00	07/06/01 18:37
01AMF9U07SL	P1G0207-07	Other wet	07/05/01 12:00	07/06/01 18:37

*No Hg  
reported  
Jo  
12-1-01*

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

1 of 46

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


Reported:  
 07/31/01 12:38

**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.32	mg/kg dry	1	AK101/8021B	07/10/01	07/10/01	1071099	
Benzene	ND	0.0580	"	"	"	"	"	"	
Toluene	ND	0.0580	"	"	"	"	"	"	
Ethylbenzene	ND	0.0580	"	"	"	"	"	"	
Xylenes (total)	ND	0.0580	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	105 %	60-140							
Surr: a,a,a-TFT (PID)	88.7 %	60-140							
<b>01AMF9U02SL (P1G0207-02) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.65	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0663	"	"	"	"	"	"	
Toluene	ND	0.0663	"	"	"	"	"	"	
Ethylbenzene	ND	0.0663	"	"	"	"	"	"	
Xylenes (total)	ND	0.0663	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	112 %	60-140							
Surr: a,a,a-TFT (PID)	97.2 %	60-140							
<b>01AMF9U03SL (P1G0207-03) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	1.92	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0480	"	"	"	"	"	"	
Toluene	ND	0.0480	"	"	"	"	"	"	
Ethylbenzene	ND	0.0480	"	"	"	"	"	"	
Xylenes (total)	ND	0.0480	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	110 %	60-140							
Surr: a,a,a-TFT (PID)	94.8 %	60-140							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


Reported:  
 07/31/01 12:38

**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.04	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0510	"	"	"	"	"	"	
Toluene	ND	0.0510	"	"	"	"	"	"	
Ethylbenzene	ND	0.0510	"	"	"	"	"	"	
Xylenes (total)	ND	0.0510	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	116 %	60-140							
Surr: a,a,a-TFT (PID)	99.3 %	60-140							
<b>01AMF9U05SL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	1.78	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0444	"	"	"	"	"	"	
Toluene	ND	0.0444	"	"	"	"	"	"	
Ethylbenzene	ND	0.0444	"	"	"	"	"	"	
Xylenes (total)	ND	0.0444	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	115 %	60-140							
Surr: a,a,a-TFT (PID)	98.4 %	60-140							
<b>01AMF9U06SL (P1G0207-06) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Gasoline Range Organics	ND	2.35	mg/kg dry	1	AK101/8021B	07/10/01	07/11/01	1071099	
Benzene	ND	0.0589	"	"	"	"	"	"	
Toluene	ND	0.0589	"	"	"	"	"	"	
Ethylbenzene	ND	0.0589	"	"	"	"	"	"	
Xylenes (total)	ND	0.0589	"	"	"	"	"	"	
Surr: a,a,a-TFT (FID)	104 %	60-140							
Surr: a,a,a-TFT (PID)	89.4 %	60-140							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter


Reported:  
07/31/01 12:38

**Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	87.1 %	75-125							
Surr: Triacotane	118 %	50-150							
<b>01AMF9U02SL (P1G0207-02) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/12/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	79.2 %	75-125							
Surr: Triacotane	112 %	50-150							
<b>01AMF9U03SL (P1G0207-03) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/13/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	69.9 %	75-125							
Surr: Triacotane	91.0 %	50-150							S-07
<b>01AMF9U04SL (P1G0207-04) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/13/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	81.2 %	75-125							
Surr: Triacotane	106 %	50-150							
<b>01AMF9U05SL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/13/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	72.1 %	75-125							
Surr: Triacotane	101 %	50-150							S-07

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
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07/31/01 12:38

**Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U06SL (P1G0207-06) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Diesel Range Organics	ND	25.0	mg/kg dry	1	AK102/103	07/11/01	07/13/01	1071114	
Residual Range Organics	ND	50.0	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	86.8 %	75-125							
Surr: Triacontane	104 %	50-150							

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 Anchorage, AK 99502-1116

Project: Amchitka  
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 07/31/01 12:38


### Total Metals per EPA 6000/7000 Series Methods

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	2.32	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	12.2	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	11.7	0.500	"	"	"	"	"	"	
Lead	0.902	0.500	"	"	"	"	"	"	
Nickel	11.9	1.00	"	"	"	"	"	"	
Vanadium	55.6	2.50	"	1	"	"	"	"	
<b>01AMF9U02SL (P1G0207-02) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	1.62	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	14.1	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	21.2	0.500	"	"	"	"	"	"	
Lead	1.02	0.500	"	"	"	"	"	"	
Nickel	14.3	1.00	"	"	"	"	"	"	
Vanadium	98.5	2.50	"	1	"	"	"	"	
<b>01AMF9U03SL (P1G0207-03) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	1.91	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	46.0	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	27.1	0.500	"	"	"	"	"	"	
Lead	1.84	0.500	"	"	"	"	"	"	
Nickel	39.8	1.00	"	"	"	"	"	"	
Vanadium	132	2.50	"	1	"	"	"	"	

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**Total Metals per EPA 6000/7000 Series Methods**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	3.79	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	28.8	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	11.7	0.500	"	"	"	"	"	"	
Lead	1.32	0.500	"	"	"	"	"	"	
Nickel	19.2	1.00	"	"	"	"	"	"	
Vanadium	56.0	2.50	"	1	"	"	"	"	
<b>01AMF9U05SL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	1.94	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	28.0	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	23.7	0.500	"	"	"	"	"	"	
Lead	1.43	0.500	"	"	"	"	"	"	
Nickel	21.0	1.00	"	"	"	"	"	"	
Vanadium	115	2.50	"	1	"	"	"	"	
<b>01AMF9U06SL (P1G0207-06) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Arsenic	18.0	0.500	mg/kg dry	1	EPA 6020	07/19/01	07/26/01	1071443	
Barium	35.3	1.00	"	10	"	"	07/24/01	"	
Cadmium	ND	0.500	"	"	"	"	"	"	
Chromium	13.6	0.500	"	"	"	"	"	"	
Lead	1.61	0.500	"	"	"	"	"	"	
Nickel	17.7	1.00	"	"	"	"	"	"	
Vanadium	73.0	2.50	"	1	"	"	"	"	

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
## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/18/01	07/19/01	1071381	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	86.6 %	63-119							
Surr: Decachlorobiphenyl	104 %	52-131							
<b>01AMF9U02SL (P1G0207-02) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/18/01	07/19/01	1071381	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	87.0 %	63-119							
Surr: Decachlorobiphenyl	99.7 %	52-131							
<b>01AMF9U03SL (P1G0207-03) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/18/01	07/19/01	1071381	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	83.7 %	63-119							
Surr: Decachlorobiphenyl	98.7 %	52-131							

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38


## Polychlorinated Biphenyls per EPA Method 8082

### North Creek Analytical - Portland

North Creek Analytical - Portland									
Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/18/01	07/19/01	1071381	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	82.3 %	63-119							
Surr: Decachlorobiphenyl	99.2 %	52-131							
<b>01AMF9U05SL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/18/01	07/19/01	1071381	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	98.1 %	63-119							
Surr: Decachlorobiphenyl	115 %	52-131							
<b>01AMF9U06SL (P1G0207-06) Soil</b>									
						Sampled: 07/05/01	Received: 07/06/01		
Aroclor 1016	ND	67.0	ug/kg dry	1	EPA 8082	07/19/01	07/20/01	1071434	
Aroclor 1221	ND	134	"	"	"	"	"	"	
Aroclor 1232	ND	67.0	"	"	"	"	"	"	
Aroclor 1242	ND	67.0	"	"	"	"	"	"	
Aroclor 1248	ND	67.0	"	"	"	"	"	"	
Aroclor 1254	ND	67.0	"	"	"	"	"	"	
Aroclor 1260	ND	67.0	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	83.6 %	63-119							
Surr: Decachlorobiphenyl	101 %	52-131							

North Creek Analytical - Portland

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
## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1450	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
Benzene	ND	58.0	"	"	"	"	"	"	
Bromobenzene	ND	58.0	"	"	"	"	"	"	
Bromochloromethane	ND	58.0	"	"	"	"	"	"	
Bromodichloromethane	ND	58.0	"	"	"	"	"	"	
Bromoform	ND	58.0	"	"	"	"	"	"	
Bromomethane	ND	290	"	"	"	"	"	"	
2-Butanone	ND	580	"	"	"	"	"	"	
n-Butylbenzene	ND	290	"	"	"	"	"	"	
sec-Butylbenzene	ND	58.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	58.0	"	"	"	"	"	"	
Carbon disulfide	ND	580	"	"	"	"	"	"	
Carbon tetrachloride	ND	58.0	"	"	"	"	"	"	
Chlorobenzene	ND	58.0	"	"	"	"	"	"	
Chloroethane	ND	58.0	"	"	"	"	"	"	
Chloroform	ND	58.0	"	"	"	"	"	"	
Chloromethane	ND	290	"	"	"	"	"	"	
2-Chlorotoluene	ND	58.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	58.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	290	"	"	"	"	"	"	
Dibromochloromethane	ND	58.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	58.0	"	"	"	"	"	"	
Dibromomethane	ND	58.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	58.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	58.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	58.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	290	"	"	"	"	"	"	
1,1-Dichloroethane	ND	58.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	58.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	58.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	58.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	58.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	58.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	58.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	58.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	58.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	58.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	58.0	"	"	"	"	"	"	
Ethylbenzene	ND	58.0	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
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## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	116	ug/kg dry	1	EPA 8260B	07/14/01	07/15/01	1071265	
2-Hexanone	ND	580	"	"	"	"	"	"	
Isopropylbenzene	ND	116	"	"	"	"	"	"	
p-Isopropyltoluene	ND	116	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	290	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	58.0	"	"	"	"	"	"	
Methylene chloride	ND	290	"	"	"	"	"	"	
Naphthalene	ND	116	"	"	"	"	"	"	
n-Propylbenzene	ND	58.0	"	"	"	"	"	"	
Styrene	ND	58.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	58.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	58.0	"	"	"	"	"	"	
Tetrachloroethene	ND	58.0	"	"	"	"	"	"	
Toluene	ND	58.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	58.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	58.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	58.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	58.0	"	"	"	"	"	"	
Trichloroethene	ND	58.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	58.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	58.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	58.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	58.0	"	"	"	"	"	"	
Vinyl chloride	ND	58.0	"	"	"	"	"	"	
o-Xylene	ND	58.0	"	"	"	"	"	"	
m,p-Xylene	ND	116	"	"	"	"	"	"	
Surr: 4-BFB	97.0 %	70-130							
Surr: 1,2-DCA-d4	91.0 %	70-130							
Surr: Dibromofluoromethane	95.5 %	70-130							
Surr: Toluene-d8	106 %	70-130							

North Creek Analytical - Portland

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

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
## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U02SL (P1G0207-02) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1660	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
Benzene	ND	66.3	"	"	"	"	"	"	
Bromobenzene	ND	66.3	"	"	"	"	"	"	
Bromochloromethane	ND	66.3	"	"	"	"	"	"	
Bromodichloromethane	ND	66.3	"	"	"	"	"	"	
Bromoform	ND	66.3	"	"	"	"	"	"	
Bromomethane	ND	332	"	"	"	"	"	"	
2-Butanone	ND	663	"	"	"	"	"	"	
n-Butylbenzene	ND	332	"	"	"	"	"	"	
sec-Butylbenzene	ND	66.3	"	"	"	"	"	"	
tert-Butylbenzene	ND	66.3	"	"	"	"	"	"	
Carbon disulfide	ND	663	"	"	"	"	"	"	
Carbon tetrachloride	ND	66.3	"	"	"	"	"	"	
Chlorobenzene	ND	66.3	"	"	"	"	"	"	
Chloroethane	ND	66.3	"	"	"	"	"	"	
Chloroform	ND	66.3	"	"	"	"	"	"	
Chloromethane	ND	332	"	"	"	"	"	"	
2-Chlorotoluene	ND	66.3	"	"	"	"	"	"	
4-Chlorotoluene	ND	66.3	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	332	"	"	"	"	"	"	
Dibromochloromethane	ND	66.3	"	"	"	"	"	"	
1,2-Dibromoethane	ND	66.3	"	"	"	"	"	"	
Dibromomethane	ND	66.3	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	66.3	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	66.3	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	66.3	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	332	"	"	"	"	"	"	
1,1-Dichloroethane	ND	66.3	"	"	"	"	"	"	
1,2-Dichloroethane	ND	66.3	"	"	"	"	"	"	
1,1-Dichloroethene	ND	66.3	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	66.3	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	66.3	"	"	"	"	"	"	
1,2-Dichloropropane	ND	66.3	"	"	"	"	"	"	
1,3-Dichloropropane	ND	66.3	"	"	"	"	"	"	
2,2-Dichloropropane	ND	66.3	"	"	"	"	"	"	
1,1-Dichloropropene	ND	66.3	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	66.3	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	66.3	"	"	"	"	"	"	
Ethylbenzene	ND	66.3	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

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12 of 46

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Anchorage, AK 99502-1116

Project: Amchitka  
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
**Reported:**  
07/31/01 12:38

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U02SL (P1G0207-02) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	133	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
2-Hexanone	ND	663	"	"	"	"	"	"	
Isopropylbenzene	ND	133	"	"	"	"	"	"	
p-Isopropyltoluene	ND	133	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	332	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	66.3	"	"	"	"	"	"	
Methylene chloride	ND	332	"	"	"	"	"	"	
Naphthalene	ND	133	"	"	"	"	"	"	
n-Propylbenzene	ND	66.3	"	"	"	"	"	"	
Styrene	ND	66.3	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	66.3	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	66.3	"	"	"	"	"	"	
Tetrachloroethene	ND	66.3	"	"	"	"	"	"	
Toluene	ND	66.3	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	66.3	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	66.3	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	66.3	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	66.3	"	"	"	"	"	"	
Trichloroethene	ND	66.3	"	"	"	"	"	"	
Trichlorofluoromethane	ND	66.3	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	66.3	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	66.3	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	66.3	"	"	"	"	"	"	
Vinyl chloride	ND	66.3	"	"	"	"	"	"	
o-Xylene	ND	66.3	"	"	"	"	"	"	
m,p-Xylene	ND	133	"	"	"	"	"	"	
Surr: 4-BFB	93.9 %	70-130							
Surr: 1,2-DCA-d4	93.2 %	70-130							
Surr: Dibromofluoromethane	97.3 %	70-130							
Surr: Toluene-d8	107 %	70-130							

North Creek Analytical - Portland

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Project: Amchitka  
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Project Manager: Anne Krarawetter

**Reported:**  
07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U03SL (P1G0207-03) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1200	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
Benzene	ND	48.0	"	"	"	"	"	"	
Bromobenzene	ND	48.0	"	"	"	"	"	"	
Bromochloromethane	ND	48.0	"	"	"	"	"	"	
Bromodichloromethane	ND	48.0	"	"	"	"	"	"	
Bromoform	ND	48.0	"	"	"	"	"	"	
Bromomethane	ND	240	"	"	"	"	"	"	
2-Butanone	ND	480	"	"	"	"	"	"	
n-Butylbenzene	ND	240	"	"	"	"	"	"	
sec-Butylbenzene	ND	48.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	48.0	"	"	"	"	"	"	
Carbon disulfide	ND	480	"	"	"	"	"	"	
Carbon tetrachloride	ND	48.0	"	"	"	"	"	"	
Chlorobenzene	ND	48.0	"	"	"	"	"	"	
Chloroethane	ND	48.0	"	"	"	"	"	"	
Chloroform	ND	48.0	"	"	"	"	"	"	
Chloromethane	ND	240	"	"	"	"	"	"	
2-Chlorotoluene	ND	48.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	48.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	240	"	"	"	"	"	"	
Dibromochloromethane	ND	48.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	48.0	"	"	"	"	"	"	
Dibromomethane	ND	48.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	48.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	48.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	48.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	240	"	"	"	"	"	"	
1,1-Dichloroethane	ND	48.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	48.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	48.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	48.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	48.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	48.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	48.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	48.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	48.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	48.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	48.0	"	"	"	"	"	"	
Ethylbenzene	ND	48.0	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
Environmental Laboratory Network



Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U03SL (P1G0207-03) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	95.9	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
2-Hexanone	ND	480	"	"	"	"	"	"	
Isopropylbenzene	ND	95.9	"	"	"	"	"	"	
p-Isopropyltoluene	ND	95.9	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	240	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	48.0	"	"	"	"	"	"	
Methylene chloride	ND	240	"	"	"	"	"	"	
Naphthalene	ND	95.9	"	"	"	"	"	"	
n-Propylbenzene	ND	48.0	"	"	"	"	"	"	
Styrene	ND	48.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	48.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	48.0	"	"	"	"	"	"	
Tetrachloroethene	ND	48.0	"	"	"	"	"	"	
Toluene	ND	48.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	48.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	48.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	48.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	48.0	"	"	"	"	"	"	
Trichloroethene	ND	48.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	48.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	48.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	48.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	48.0	"	"	"	"	"	"	
Vinyl chloride	ND	48.0	"	"	"	"	"	"	
o-Xylene	ND	48.0	"	"	"	"	"	"	
m,p-Xylene	ND	95.9	"	"	"	"	"	"	
Surr: 4-BFB	92.2 %	70-130							
Surr: 1,2-DCA-d4	93.9 %	70-130							
Surr: Dibromofluoromethane	94.8 %	70-130							
Surr: Toluene-d8	108 %	70-130							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1270	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
Benzene	ND	51.0	"	"	"	"	"	"	
Bromobenzene	ND	51.0	"	"	"	"	"	"	
Bromochloromethane	ND	51.0	"	"	"	"	"	"	
Bromodichloromethane	ND	51.0	"	"	"	"	"	"	
Bromoform	ND	51.0	"	"	"	"	"	"	
Bromomethane	ND	255	"	"	"	"	"	"	
2-Butanone	ND	510	"	"	"	"	"	"	
n-Butylbenzene	ND	255	"	"	"	"	"	"	
sec-Butylbenzene	ND	51.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	51.0	"	"	"	"	"	"	
Carbon disulfide	ND	510	"	"	"	"	"	"	
Carbon tetrachloride	ND	51.0	"	"	"	"	"	"	
Chlorobenzene	ND	51.0	"	"	"	"	"	"	
Chloroethane	ND	51.0	"	"	"	"	"	"	
Chloroform	ND	51.0	"	"	"	"	"	"	
Chloromethane	ND	255	"	"	"	"	"	"	
2-Chlorotoluene	ND	51.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	51.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	255	"	"	"	"	"	"	
Dibromochloromethane	ND	51.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	51.0	"	"	"	"	"	"	
Dibromomethane	ND	51.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	51.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	51.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	51.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	255	"	"	"	"	"	"	
1,1-Dichloroethane	ND	51.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	51.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	51.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	51.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	51.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	51.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	51.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	51.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	51.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	51.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	51.0	"	"	"	"	"	"	
Ethylbenzene	ND	51.0	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter


**Reported:**  
07/31/01 12:38

**Volatile Organic Compounds per EPA Method 8260B**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	102	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
2-Hexanone	ND	510	"	"	"	"	"	"	
Isopropylbenzene	ND	102	"	"	"	"	"	"	
p-Isopropyltoluene	ND	102	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	255	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	51.0	"	"	"	"	"	"	
Methylene chloride	ND	255	"	"	"	"	"	"	
Naphthalene	ND	102	"	"	"	"	"	"	
n-Propylbenzene	ND	51.0	"	"	"	"	"	"	
Styrene	ND	51.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	51.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	51.0	"	"	"	"	"	"	
Tetrachloroethene	ND	51.0	"	"	"	"	"	"	
Toluene	ND	51.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	51.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	51.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	51.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	51.0	"	"	"	"	"	"	
Trichloroethene	ND	51.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	51.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	51.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	51.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	51.0	"	"	"	"	"	"	
Vinyl chloride	ND	51.0	"	"	"	"	"	"	
o-Xylene	ND	51.0	"	"	"	"	"	"	
m,p-Xylene	ND	102	"	"	"	"	"	"	
Surr: 4-BFB	93.0 %	70-130							
Surr: 1,2-DCA-d4	94.7 %	70-130							
Surr: Dibromofluoromethane	97.4 %	70-130							
Surr: Toluene-d8	109 %	70-130							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

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**Environmental Laboratory Network**

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Seattle 1175 1st Creek Pkwy N, Suite 400, Bothell, WA 98011-8244  
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503.906.9200 fax 503.906.9210  
Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U05SSL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1110	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
Benzene	ND	44.4	"	"	"	"	"	"	
Bromobenzene	ND	44.4	"	"	"	"	"	"	
Bromochloromethane	ND	44.4	"	"	"	"	"	"	
Bromodichloromethane	ND	44.4	"	"	"	"	"	"	
Bromoform	ND	44.4	"	"	"	"	"	"	
Bromomethane	ND	222	"	"	"	"	"	"	
2-Butanone	ND	444	"	"	"	"	"	"	
n-Butylbenzene	ND	222	"	"	"	"	"	"	
sec-Butylbenzene	ND	44.4	"	"	"	"	"	"	
tert-Butylbenzene	ND	44.4	"	"	"	"	"	"	
Carbon disulfide	ND	444	"	"	"	"	"	"	
Carbon tetrachloride	ND	44.4	"	"	"	"	"	"	
Chlorobenzene	ND	44.4	"	"	"	"	"	"	
Chloroethane	ND	44.4	"	"	"	"	"	"	
Chloroform	ND	44.4	"	"	"	"	"	"	
Chloromethane	ND	222	"	"	"	"	"	"	
2-Chlorotoluene	ND	44.4	"	"	"	"	"	"	
4-Chlorotoluene	ND	44.4	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	222	"	"	"	"	"	"	
Dibromochloromethane	ND	44.4	"	"	"	"	"	"	
1,2-Dibromoethane	ND	44.4	"	"	"	"	"	"	
Dibromomethane	ND	44.4	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	44.4	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	44.4	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	44.4	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	222	"	"	"	"	"	"	
1,1-Dichloroethane	ND	44.4	"	"	"	"	"	"	
1,2-Dichloroethane	ND	44.4	"	"	"	"	"	"	
1,1-Dichloroethene	ND	44.4	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	44.4	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	44.4	"	"	"	"	"	"	
1,2-Dichloropropane	ND	44.4	"	"	"	"	"	"	
1,3-Dichloropropane	ND	44.4	"	"	"	"	"	"	
2,2-Dichloropropane	ND	44.4	"	"	"	"	"	"	
1,1-Dichloropropene	ND	44.4	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	44.4	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	44.4	"	"	"	"	"	"	
Ethylbenzene	ND	44.4	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
Environmental Laboratory Network

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38


## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U05SL (P1G0207-05) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	88.8	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
2-Hexanone	ND	444	"	"	"	"	"	"	
Isopropylbenzene	ND	88.8	"	"	"	"	"	"	
p-Isopropyltoluene	ND	88.8	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	222	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	44.4	"	"	"	"	"	"	
Methylene chloride	ND	222	"	"	"	"	"	"	
Naphthalene	ND	88.8	"	"	"	"	"	"	
n-Propylbenzene	ND	44.4	"	"	"	"	"	"	
Styrene	ND	44.4	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	44.4	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	44.4	"	"	"	"	"	"	
Tetrachloroethene	ND	44.4	"	"	"	"	"	"	
Toluene	ND	44.4	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	44.4	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	44.4	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	44.4	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	44.4	"	"	"	"	"	"	
Trichloroethene	ND	44.4	"	"	"	"	"	"	
Trichlorofluoromethane	ND	44.4	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	44.4	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	44.4	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	44.4	"	"	"	"	"	"	
Vinyl chloride	ND	44.4	"	"	"	"	"	"	
o-Xylene	ND	44.4	"	"	"	"	"	"	
m,p-Xylene	ND	88.8	"	"	"	"	"	"	
Surr: 4-BFB	92.7 %	70-130							
Surr: 1,2-DCA-d4	96.2 %	70-130							
Surr: Dibromofluoromethane	95.2 %	70-130							
Surr: Toluene-d8	108 %	70-130							

North Creek Analytical - Portland

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Environmental Laboratory Network

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U06SL (P1G0207-06) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acetone	ND	1470	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
Benzene	ND	58.9	"	"	"	"	"	"	
Bromobenzene	ND	58.9	"	"	"	"	"	"	
Bromochloromethane	ND	58.9	"	"	"	"	"	"	
Bromodichloromethane	ND	58.9	"	"	"	"	"	"	
Bromoform	ND	58.9	"	"	"	"	"	"	
Bromomethane	ND	294	"	"	"	"	"	"	
2-Butanone	ND	589	"	"	"	"	"	"	
n-Butylbenzene	ND	294	"	"	"	"	"	"	
sec-Butylbenzene	ND	58.9	"	"	"	"	"	"	
tert-Butylbenzene	ND	58.9	"	"	"	"	"	"	
Carbon disulfide	ND	589	"	"	"	"	"	"	
Carbon tetrachloride	ND	58.9	"	"	"	"	"	"	
Chlorobenzene	ND	58.9	"	"	"	"	"	"	
Chloroethane	ND	58.9	"	"	"	"	"	"	
Chloroform	ND	58.9	"	"	"	"	"	"	
Chloromethane	ND	294	"	"	"	"	"	"	
2-Chlorotoluene	ND	58.9	"	"	"	"	"	"	
4-Chlorotoluene	ND	58.9	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	294	"	"	"	"	"	"	
Dibromochloromethane	ND	58.9	"	"	"	"	"	"	
1,2-Dibromoethane	ND	58.9	"	"	"	"	"	"	
Dibromomethane	ND	58.9	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	58.9	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	58.9	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	58.9	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	294	"	"	"	"	"	"	
1,1-Dichloroethane	ND	58.9	"	"	"	"	"	"	
1,2-Dichloroethane	ND	58.9	"	"	"	"	"	"	
1,1-Dichloroethene	ND	58.9	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	58.9	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	58.9	"	"	"	"	"	"	
1,2-Dichloropropane	ND	58.9	"	"	"	"	"	"	
1,3-Dichloropropane	ND	58.9	"	"	"	"	"	"	
2,2-Dichloropropane	ND	58.9	"	"	"	"	"	"	
1,1-Dichloropropene	ND	58.9	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	58.9	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	58.9	"	"	"	"	"	"	
Ethylbenzene	ND	58.9	"	"	"	"	"	"	

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U06SL (P1G0207-06) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Hexachlorobutadiene	ND	118	ug/kg dry	1	EPA 8260B	07/14/01	07/16/01	1071265	
2-Hexanone	ND	589	"	"	"	"	"	"	
Isopropylbenzene	ND	118	"	"	"	"	"	"	
p-Isopropyltoluene	ND	118	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	294	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	58.9	"	"	"	"	"	"	
Methylene chloride	ND	294	"	"	"	"	"	"	
Naphthalene	ND	118	"	"	"	"	"	"	
n-Propylbenzene	ND	58.9	"	"	"	"	"	"	
Styrene	ND	58.9	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	58.9	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	58.9	"	"	"	"	"	"	
Tetrachloroethene	ND	58.9	"	"	"	"	"	"	
Toluene	ND	58.9	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	58.9	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	58.9	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	58.9	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	58.9	"	"	"	"	"	"	
Trichloroethene	ND	58.9	"	"	"	"	"	"	
Trichlorofluoromethane	ND	58.9	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	58.9	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	58.9	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	58.9	"	"	"	"	"	"	
Vinyl chloride	ND	58.9	"	"	"	"	"	"	
o-Xylene	ND	58.9	"	"	"	"	"	"	
m,p-Xylene	ND	118	"	"	"	"	"	"	
Surr: 4-BFB	95.5 %	70-130							
Surr: 1,2-DCA-d4	94.0 %	70-130							
Surr: Dibromofluoromethane	97.0 %	70-130							
Surr: Toluene-d8	108 %	70-130							

North Creek Analytical - Portland

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*Jo*  
 Jerry Orlando, Project Manager/QA

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 Environmental Laboratory Network

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMF9U07SL (P1G0207-07) Other wet						Sampled: 07/05/01 Received: 07/06/01		P-02	
Acetone	ND	2500	ug/kg wet	1	EPA 8260B	07/16/01	07/16/01	1071301	
Benzene	ND	100	"	"	"	"	"	"	
Bromobenzene	ND	100	"	"	"	"	"	"	
Bromochloromethane	ND	100	"	"	"	"	"	"	
Bromodichloromethane	ND	100	"	"	"	"	"	"	
Bromoform	ND	100	"	"	"	"	"	"	
Bromomethane	ND	500	"	"	"	"	"	"	
2-Butanone	ND	1000	"	"	"	"	"	"	
n-Butylbenzene	ND	500	"	"	"	"	"	"	
sec-Butylbenzene	ND	100	"	"	"	"	"	"	
tert-Butylbenzene	ND	100	"	"	"	"	"	"	
Carbon disulfide	ND	1000	"	"	"	"	"	"	
Carbon tetrachloride	ND	100	"	"	"	"	"	"	
Chlorobenzene	ND	100	"	"	"	"	"	"	
Chloroethane	ND	100	"	"	"	"	"	"	
Chloroform	ND	100	"	"	"	"	"	"	
Chloromethane	ND	500	"	"	"	"	"	"	
2-Chlorotoluene	ND	100	"	"	"	"	"	"	
4-Chlorotoluene	ND	100	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	500	"	"	"	"	"	"	
Dibromochloromethane	ND	100	"	"	"	"	"	"	
1,2-Dibromoethane	ND	100	"	"	"	"	"	"	
Dibromomethane	ND	100	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	100	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	100	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	100	"	"	"	"	"	"	
1,2-Dichloroethane	ND	100	"	"	"	"	"	"	
1,1-Dichloroethene	ND	100	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	100	"	"	"	"	"	"	
1,2-Dichloropropane	ND	100	"	"	"	"	"	"	
1,3-Dichloropropane	ND	100	"	"	"	"	"	"	
2,2-Dichloropropane	ND	100	"	"	"	"	"	"	
1,1-Dichloropropene	ND	100	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	100	"	"	"	"	"	"	
Ethylbenzene	ND	100	"	"	"	"	"	"	

North Creek Analytical - Portland

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*Jo*  
Jerry Orlando, Project Manager/QA

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Environmental Laboratory Network



Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

## Volatile Organic Compounds per EPA Method 8260B

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U07SL (P1G0207-07) Other wet</b>						Sampled: 07/05/01 Received: 07/06/01		<b>P-02</b>	
Hexachlorobutadiene	ND	200	ug/kg wet	1	EPA 8260B	07/16/01	07/16/01	1071301	
2-Hexanone	ND	1000	"	"	"	"	"	"	
Isopropylbenzene	ND	200	"	"	"	"	"	"	
p-Isopropyltoluene	ND	200	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	100	"	"	"	"	"	"	
Methylene chloride	ND	500	"	"	"	"	"	"	
Naphthalene	ND	200	"	"	"	"	"	"	
n-Propylbenzene	ND	100	"	"	"	"	"	"	
Styrene	ND	100	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	100	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	100	"	"	"	"	"	"	
Tetrachloroethene	ND	100	"	"	"	"	"	"	
Toluene	ND	100	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	100	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	100	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	100	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	100	"	"	"	"	"	"	
Trichloroethene	ND	100	"	"	"	"	"	"	
Trichlorofluoromethane	ND	100	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	100	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	100	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	100	"	"	"	"	"	"	
Vinyl chloride	ND	100	"	"	"	"	"	"	
o-Xylene	ND	100	"	"	"	"	"	"	
m,p-Xylene	ND	200	"	"	"	"	"	"	
Surr: 4-BFB	94.5 %	70-130							
Surr: 1,2-DCA-d4	79.0 %	70-130							
Surr: Dibromofluoromethane	84.5 %	70-130							
Surr: Toluene-d8	96.0 %	70-130							

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	67.5 %	40-150							
Surr: Pyrene-d10	116 %	40-150							
Surr: Benzo (a) pyrene-d12	96.6 %	40-150							

<b>01AMF9U02SL (P1G0207-02) Soil</b>									
						Sampled: 07/05/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	71.2 %	40-150							

North Creek Analytical - Portland

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North Creek Analytical, Inc.  
 Environmental Laboratory Network

24 of 46

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

## Polynuclear Aromatic Compounds per EPA 8270M-SIM

### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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#### 01AMF9U02SL (P1G0207-02) Soil

Sampled: 07/05/01 Received: 07/06/01

Surr: Pyrene-d10	118 %	40-150
Surr: Benzo (a) pyrene-d12	98.4 %	40-150

#### 01AMF9U03SL (P1G0207-03) Soil

Sampled: 07/05/01 Received: 07/06/01

Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	67.9 %	40-150							
Surr: Pyrene-d10	105 %	40-150							
Surr: Benzo (a) pyrene-d12	91.7 %	40-150							


#### 01AMF9U04SL (P1G0207-04) Soil

Sampled: 07/05/01 Received: 07/06/01

Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	

North Creek Analytical - Portland

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


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**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U04SL (P1G0207-04) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Naphthalene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	56.9 %	40-150							
Surr: Pyrene-d10	90.1 %	40-150							
Surr: Benzo (a) pyrene-d12	77.4 %	40-150							
<b>01AMF9U05SL (P1G0207-05) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	65.8 %	40-150							
Surr: Pyrene-d10	115 %	40-150							
Surr: Benzo (a) pyrene-d12	99.0 %	40-150							

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter


Reported:  
07/31/01 12:38

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U06SL (P1G0207-06) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
Acenaphthene	ND	13.4	ug/kg dry	1	EPA 8270m	07/18/01	07/20/01	1071402	
Acenaphthylene	ND	13.4	"	"	"	"	"	"	
Anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) anthracene	ND	13.4	"	"	"	"	"	"	
Benzo (a) pyrene	ND	13.4	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	13.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	13.4	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	13.4	"	"	"	"	"	"	
Chrysene	ND	13.4	"	"	"	"	"	"	
Dibenzo (a,h) anthracene	ND	13.4	"	"	"	"	"	"	
Fluoranthene	ND	13.4	"	"	"	"	"	"	
Fluorene	ND	13.4	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	13.4	"	"	"	"	"	"	
Naphthalene	ND	13.4	"	"	"	"	"	"	
Phenanthrene	ND	13.4	"	"	"	"	"	"	
Pyrene	ND	13.4	"	"	"	"	"	"	
Surr: Fluorene-d10	69.7 %	40-150							
Surr: Pyrene-d10	114 %	40-150							
Surr: Benzo (a) pyrene-d12	96.6 %	40-150							

North Creek Analytical - Portland

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Jerry Orlando, Project Manager/QA

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**Environmental Laboratory Network**

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 503.906.9200 fax 503.906.9210  
**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter


Reported:  
 07/31/01 12:38

**Percent Dry Weight (Solids) per Standard Methods**  
**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
<b>01AMF9U01SL (P1G0207-01) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	87.5	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMF9U02SL (P1G0207-02) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	90.1	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMF9U03SL (P1G0207-03) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	83.5	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMF9U04SL (P1G0207-04) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	89.4	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMF9U05SL (P1G0207-05) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	88.5	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	
<b>01AMF9U06SL (P1G0207-06) Soil</b>						Sampled: 07/05/01 Received: 07/06/01			
% Solids	88.2	1.00	% by Weight	1	NCA SOP	07/11/01	07/12/01	1071131	

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 Jerry Orlando, Project Manager/QA

North Creek Analytical, Inc.  
 Environmental Laboratory Network

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071099 - EPA 5035

##### Blank (1071099-BLK1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	4.00	mg/kg							
Benzene	ND	0.100	"							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes (total)	ND	0.100	"							
Surr: a,a,a-TFT (FID)	3.22		"	2.50		129	60-140			
Surr: a,a,a-TFT (PID)	2.43		"	2.50		97.2	60-140			

##### LCS (1071099-BS1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	68.6	4.00	mg/kg	62.5		110	70-120			
Surr: a,a,a-TFT (FID)	3.41		"	2.50		136	60-140			

##### LCS (1071099-BS2)

Prepared & Analyzed: 07/10/01

Benzene	0.795	0.100	mg/kg	1.00		79.5	70-120			
Toluene	0.777	0.100	"	1.00		77.7	70-120			
Ethylbenzene	0.803	0.100	"	1.00		80.3	70-120			
Xylenes (total)	2.51	0.100	"	3.00		83.7	70-120			
Surr: a,a,a-TFT (PID)	2.47		"	2.50		98.8	60-140			

##### LCS Dup (1071099-BSD1)

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	68.6	4.00	mg/kg	62.5		110	70-120	0.00	20	
Surr: a,a,a-TFT (FID)	3.46		"	2.50		138	60-140			

##### LCS Dup (1071099-BSD2)

Prepared & Analyzed: 07/10/01

Benzene	0.819	0.100	mg/kg	1.00		81.9	70-120	2.97	200	
Toluene	0.799	0.100	"	1.00		79.9	70-120	2.79	200	
Ethylbenzene	0.835	0.100	"	1.00		83.5	70-120	3.91	200	
Xylenes (total)	2.60	0.100	"	3.00		86.7	70-120	3.52	200	
Surr: a,a,a-TFT (PID)	2.51		"	2.50		100	60-140			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

**Gasoline Range Organics (n-Hexane to <n-Decane) and BTEX per AK101 and EPA 8021B - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071099 - EPA 5035**

**Duplicate (1071099-DUP1)**

Source: P1G0209-01

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	4.00	mg/kg dry		ND			8.22	50	
Surr: a,a,a-TFT (FID)	12.0		"	11.1		108	60-140			

**Duplicate (1071099-DUP2)**

Source: P1G0205-01

Prepared & Analyzed: 07/10/01

Gasoline Range Organics	ND	2.64	mg/kg dry		ND				50	
Surr: a,a,a-TFT (FID)	6.66		"	8.48		78.5	60-140			

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 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Diesel Range Organics (C10-C25) and Residual Range Organics (C25-C36) per AK102/103 - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1071114 - EPA 3550 Fuels</b>										
<b>Blank (1071114-BLK1)</b>					Prepared: 07/11/01 Analyzed: 07/12/01					
Diesel Range Organics	ND	25.0	mg/kg							
Residual Range Organics	ND	50.0	"							
Surr: 1-Chlorooctadecane	4.21		"	4.80		87.7	75-125			
Surr: Triacontane	4.55		"	6.25		72.8	50-150			
<b>LCS (1071114-BS1)</b>					Prepared: 07/11/01 Analyzed: 07/12/01					
Diesel Range Organics	110	25.0	mg/kg	129		85.3	60-130			
Residual Range Organics	80.6	50.0	"	79.0		102	60-130			
Surr: 1-Chlorooctadecane	3.46		"	4.80		72.1	75-125			S-07
Surr: Triacontane	6.12		"	6.25		97.9	50-150			
<b>LCS Dup (1071114-BSD1)</b>					Prepared: 07/11/01 Analyzed: 07/13/01					
Diesel Range Organics	119	25.0	mg/kg	129		92.2	60-130	7.86	20	
Residual Range Organics	81.6	50.0	"	79.0		103	60-130	1.23	20	
Surr: 1-Chlorooctadecane	3.65		"	4.80		76.0	75-125			
Surr: Triacontane	6.44		"	6.25		103	50-150			
<b>Duplicate (1071114-DUP1)</b>					Source: P1G0205-01 Prepared: 07/11/01 Analyzed: 07/12/01					
Diesel Range Organics	ND	25.0	mg/kg dry		ND				50	
Residual Range Organics	ND	50.0	"		ND				50	
Surr: 1-Chlorooctadecane	4.83		"	6.16		78.4	75-125			
Surr: Triacontane	7.58		"	8.03		94.4	50-150			
<b>Duplicate (1071114-DUP2)</b>					Source: P1G0206-07 Prepared: 07/11/01 Analyzed: 07/12/01					
Diesel Range Organics	ND	25.0	mg/kg dry		ND				50	
Residual Range Organics	ND	50.0	"		ND				50	
Surr: 1-Chlorooctadecane	4.41		"	5.15		85.6	75-125			
Surr: Triacontane	8.57		"	6.71		128	50-150			

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071443 - EPA 3050

##### Blank (1071443-BLK1)

Prepared: 07/19/01 Analyzed: 07/26/01

Arsenic	ND	0.500	mg/kg
Barium	ND	1.00	"
Cadmium	ND	0.500	"
Chromium	ND	0.500	"
Lead	ND	0.500	"
Nickel	ND	1.00	"
Vanadium	ND	2.50	"

##### LCS (1071443-BS1)

Prepared: 07/19/01 Analyzed: 07/26/01

Arsenic	12.0	0.500	mg/kg	10.0	120	80-120
Barium	10.6	1.00	"	10.0	106	80-120
Cadmium	10.8	0.500	"	10.0	108	80-120
Chromium	9.62	0.500	"	10.0	96.2	80-120
Lead	9.46	0.500	"	10.0	94.6	80-120
Nickel	10.9	1.00	"	10.0	109	80-120
Vanadium	9.26	2.50	"	10.0	92.6	80-120

##### Duplicate (1071443-DUP1)

Source: P1G0533-01

Prepared: 07/19/01 Analyzed: 07/26/01

Arsenic	9.07	0.500	mg/kg dry	9.19	1.31	40
Barium	105	1.00	"	111	5.56	40
Cadmium	ND	0.500	"	ND		40
Chromium	10.3	0.500	"	11.9	14.4	40
Lead	7.85	0.500	"	7.99	1.77	40
Nickel	14.8	1.00	"	15.1	2.01	40
Vanadium	52.7	2.50	"	55.4	5.00	40

##### Matrix Spike (1071443-MS1)

Source: P1G0533-01

Prepared: 07/19/01 Analyzed: 07/26/01

Arsenic	23.3	0.500	mg/kg dry	10.9	9.19	129	75-125	Q-02
Barium	122	1.00	"	10.9	111	101	75-125	
Cadmium	11.4	0.500	"	10.9	ND	105	75-125	
Chromium	22.8	0.500	"	10.9	11.9	100	75-125	
Lead	17.9	0.500	"	10.9	7.99	90.9	75-125	
Nickel	27.7	1.00	"	10.9	15.1	116	75-125	
Vanadium	69.1	2.50	"	10.9	55.4	126	75-125	Q-02

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
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### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071443 - EPA 3050

#### Matrix Spike (1071443-MS2)

Source: P1G0207-01

Prepared: 07/19/01 Analyzed: 07/26/01

Arsenic	6.06	0.500	mg/kg dry	11.2	2.32	33.4	75-125			Q-02
Barium	26.6	1.00	"	11.2	12.2	129	75-125			Q-02
Cadmium	12.2	0.500	"	11.2	ND	109	75-125			
Chromium	33.2	0.500	"	11.2	11.7	192	75-125			Q-02
Lead	11.7	0.500	"	11.2	0.902	96.4	75-125			
Nickel	27.2	1.00	"	11.2	11.9	137	75-125			Q-02
Vanadium	111	2.50	"	11.2	55.6	NR	75-125			Q-14

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 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071381 - EPA 3550

##### Blank (1071381-BLK1)

Prepared: 07/18/01 Analyzed: 07/19/01

Aroclor 1016	ND	67.0	ug/kg						
Aroclor 1221	ND	134	"						
Aroclor 1232	ND	67.0	"						
Aroclor 1242	ND	67.0	"						
Aroclor 1248	ND	67.0	"						
Aroclor 1254	ND	67.0	"						
Aroclor 1260	ND	67.0	"						
Surr: 2,4,5,6-Tetrachloro-m-xylene	30.7		"	33.3		92.2	63-119		
Surr: Decachlorobiphenyl	37.3		"	33.3		112	52-131		

##### LCS (1071381-BS2)

Prepared: 07/18/01 Analyzed: 07/19/01

Aroclor 1016	300	67.0	ug/kg	333		90.1	57-132		
Aroclor 1260	310	67.0	"	333		93.1	60-136		
Surr: 2,4,5,6-Tetrachloro-m-xylene	30.1		"	33.3		90.4	63-119		
Surr: Decachlorobiphenyl	34.8		"	33.3		105	52-131		

#### Batch 1071434 - EPA 3550

##### Blank (1071434-BLK1)

Prepared: 07/19/01 Analyzed: 07/20/01

Aroclor 1016	ND	67.0	ug/kg						
Aroclor 1221	ND	134	"						
Aroclor 1232	ND	67.0	"						
Aroclor 1242	ND	67.0	"						
Aroclor 1248	ND	67.0	"						
Aroclor 1254	ND	67.0	"						
Aroclor 1260	ND	67.0	"						
Surr: 2,4,5,6-Tetrachloro-m-xylene	28.5		"	33.3		85.6	63-119		
Surr: Decachlorobiphenyl	30.3		"	33.3		91.0	52-131		

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38


### Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1071434 - EPA 3550</b>										
<b>LCS (1071434-BS1)</b>										
Aroclor 1016	285	67.0	ug/kg	333		85.6	57-132			
Aroclor 1260	286	67.0	"	333		85.9	60-136			
Surr: 2,4,5,6-Tetrachloro-m-xylene	28.8		"	33.3		86.5	63-119			
Surr: Decachlorobiphenyl	32.4		"	33.3		97.3	52-131			
<b>Matrix Spike (1071434-MS1)</b>										
				<b>Source: P1G0290-01</b>						
						Prepared: 07/19/01 Analyzed: 07/20/01				
Aroclor 1016	336	67.0	ug/kg dry	400	ND	84.0	57-132			
Aroclor 1260	342	67.0	"	400	ND	85.5	60-136			
Surr: 2,4,5,6-Tetrachloro-m-xylene	34.3		"	40.0		85.8	63-119			
Surr: Decachlorobiphenyl	38.2		"	40.0		95.5	52-131			
<b>Matrix Spike Dup (1071434-MSD1)</b>										
				<b>Source: P1G0290-01</b>						
						Prepared: 07/19/01 Analyzed: 07/20/01				
Aroclor 1016	358	67.0	ug/kg dry	400	ND	89.5	57-132	6.34	50	
Aroclor 1260	362	67.0	"	400	ND	90.5	60-136	5.68	50	
Surr: 2,4,5,6-Tetrachloro-m-xylene	35.2		"	40.0		88.0	63-119			
Surr: Decachlorobiphenyl	41.2		"	40.0		103	52-131			

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 503.906.9200 fax 503.906.9210  
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 541.383.9310 fax 541.382.7588

Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

**Volatile Organic Compounds per EPA Method 8260B - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071265 - EPA 5035**

**Blank (1071265-BLK1)**

Prepared: 07/14/01 Analyzed: 07/15/01

Acetone	ND	25.0	ug/kg
Benzene	ND	1.00	"
Bromobenzene	ND	1.00	"
Bromochloromethane	ND	1.00	"
Bromodichloromethane	ND	1.00	"
Bromoform	ND	1.00	"
Bromomethane	ND	5.00	"
2-Butanone	ND	10.0	"
n-Butylbenzene	ND	5.00	"
sec-Butylbenzene	ND	1.00	"
tert-Butylbenzene	ND	1.00	"
Carbon disulfide	ND	10.0	"
Carbon tetrachloride	ND	1.00	"
Chlorobenzene	ND	1.00	"
Chloroethane	ND	1.00	"
Chloroform	ND	1.00	"
Chloromethane	ND	5.00	"
2-Chlorotoluene	ND	1.00	"
4-Chlorotoluene	ND	1.00	"
1,2-Dibromo-3-chloropropane	ND	5.00	"
Dibromochloromethane	ND	1.00	"
1,2-Dibromoethane	ND	1.00	"
Dibromomethane	ND	1.00	"
1,2-Dichlorobenzene	ND	1.00	"
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"

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Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

**Volatile Organic Compounds per EPA Method 8260B - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071265 - EPA 5035**

**Blank (1071265-BLK1)**

Prepared: 07/14/01 Analyzed: 07/15/01

cis-1,3-Dichloropropene	ND	1.00	ug/kg							
trans-1,3-Dichloropropene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							
Hexachlorobutadiene	ND	2.00	"							
2-Hexanone	ND	10.0	"							
Isopropylbenzene	ND	2.00	"							
p-Isopropyltoluene	ND	2.00	"							
4-Methyl-2-pentanone	ND	5.00	"							
Methyl tert-butyl ether	ND	1.00	"							
Methylene chloride	ND	5.00	"							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	1.00	"							
Styrene	ND	1.00	"							
1,1,1,2-Tetrachloroethane	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
Toluene	ND	1.00	"							
1,2,3-Trichlorobenzene	ND	1.00	"							
1,2,4-Trichlorobenzene	ND	1.00	"							
1,1,1-Trichloroethane	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
Trichlorofluoromethane	ND	1.00	"							
1,2,3-Trichloropropane	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	17.9		"	20.0		89.5	70-130			
Surr: 1,2-DCA-d4	20.4		"	20.0		102	70-130			
Surr: Dibromofluoromethane	20.2		"	20.0		101	70-130			
Surr: Toluene-d8	19.5		"	20.0		97.5	70-130			

North Creek Analytical - Portland

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Bristol Environmental & Engineering  
 2000 W. International Airport Rd. #C-1  
 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071265 - EPA 5035

##### LCS (1071265-BS1)

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	21.6	1.00	ug/kg	20.0		108	80-135			
Chlorobenzene	22.3	1.00	"	20.0		112	80-135			
1,1-Dichloroethene	20.0	1.00	"	20.0		100	60-150			
Toluene	22.6	1.00	"	20.0		113	80-130			
Trichloroethene	21.2	1.00	"	20.0		106	70-135			
Surr: 4-BFB	21.1		"	20.0		106	70-130			
Surr: 1,2-DCA-d4	20.8		"	20.0		104	70-130			
Surr: Dibromofluoromethane	21.2		"	20.0		106	70-130			
Surr: Toluene-d8	20.7		"	20.0		104	70-130			

##### LCS Dup (1071265-BS1)

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	17.9	1.00	ug/kg	20.0		89.5	80-135	18.7	25	
Chlorobenzene	18.5	1.00	"	20.0		92.5	80-135	18.6	25	
1,1-Dichloroethene	16.4	1.00	"	20.0		82.0	60-150	19.8	25	
Toluene	18.2	1.00	"	20.0		91.0	80-130	21.6	25	
Trichloroethene	17.0	1.00	"	20.0		85.0	70-135	22.0	25	
Surr: 4-BFB	20.9		"	20.0		104	70-130			
Surr: 1,2-DCA-d4	20.3		"	20.0		102	70-130			
Surr: Dibromofluoromethane	21.2		"	20.0		106	70-130			
Surr: Toluene-d8	20.6		"	20.0		103	70-130			

##### Matrix Spike (1071265-MS1)

Source: P1G0205-01

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	1880	66.1	ug/kg dry	1700	ND	111	60-135			
Chlorobenzene	1950	66.1	"	1700	ND	115	65-125			
1,1-Dichloroethene	1960	66.1	"	1700	ND	115	60-135			
Toluene	1950	66.1	"	1700	ND	115	60-125			
Trichloroethene	1850	66.1	"	1700	ND	109	60-125			
Surr: 4-BFB	17.3		"	17.0		102	70-130			
Surr: 1,2-DCA-d4	16.6		"	17.0		97.6	70-130			
Surr: Dibromofluoromethane	17.5		"	17.0		103	70-130			
Surr: Toluene-d8	18.0		"	17.0		106	70-130			

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Bristol Environmental & Engineering  
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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071265 - EPA 5035

##### Matrix Spike Dup (1071265-MSD1)

Source: P1G0205-01

Prepared: 07/14/01 Analyzed: 07/15/01

Benzene	1870	66.1	ug/kg dry	1700	ND	110	60-135	0.533	25	
Chlorobenzene	1950	66.1	"	1700	ND	115	65-125	0.00	25	
1,1-Dichloroethene	1980	66.1	"	1700	ND	116	60-135	1.02	25	
Toluene	1990	66.1	"	1700	ND	117	60-125	2.03	25	
Trichloroethene	1850	66.1	"	1700	ND	109	60-125	0.00	25	
Surr: 4-BFB	17.4		"	17.0		102	70-130			
Surr: 1,2-DCA-d4	16.2		"	17.0		95.3	70-130			
Surr: Dibromofluoromethane	17.6		"	17.0		104	70-130			
Surr: Toluene-d8	18.0		"	17.0		106	70-130			

#### Batch 1071301 - EPA 5035


##### Blank (1071301-BLK1)

Prepared & Analyzed: 07/16/01

Acetone	ND	25.0	ug/kg							
Benzene	ND	1.00	"							
Bromobenzene	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
Bromoform	ND	1.00	"							
Bromomethane	ND	5.00	"							
2-Butanone	ND	10.0	"							
n-Butylbenzene	ND	5.00	"							
sec-Butylbenzene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
Carbon disulfide	ND	10.0	"							
Carbon tetrachloride	ND	1.00	"							
Chlorobenzene	ND	1.00	"							
Chloroethane	ND	1.00	"							
Chloroform	ND	1.00	"							
Chloromethane	ND	5.00	"							
2-Chlorotoluene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
1,2-Dibromo-3-chloropropane	ND	5.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane	ND	1.00	"							
Dibromomethane	ND	1.00	"							

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2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

**Reported:**  
07/31/01 12:38

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071301 - EPA 5035

##### Blank (1071301-BLK1)

Prepared & Analyzed: 07/16/01

1,2-Dichlorobenzene	ND	1.00	ug/kg
1,3-Dichlorobenzene	ND	1.00	"
1,4-Dichlorobenzene	ND	1.00	"
Dichlorodifluoromethane	ND	5.00	"
1,1-Dichloroethane	ND	1.00	"
1,2-Dichloroethane	ND	1.00	"
1,1-Dichloroethene	ND	1.00	"
cis-1,2-Dichloroethene	ND	1.00	"
trans-1,2-Dichloroethene	ND	1.00	"
1,2-Dichloropropane	ND	1.00	"
1,3-Dichloropropane	ND	1.00	"
2,2-Dichloropropane	ND	1.00	"
1,1-Dichloropropene	ND	1.00	"
cis-1,3-Dichloropropene	ND	1.00	"
trans-1,3-Dichloropropene	ND	1.00	"
Ethylbenzene	ND	1.00	"
Hexachlorobutadiene	ND	2.00	"
2-Hexanone	ND	10.0	"
Isopropylbenzene	ND	2.00	"
p-Isopropyltoluene	ND	2.00	"
4-Methyl-2-pentanone	ND	5.00	"
Methyl tert-butyl ether	ND	1.00	"
Methylene chloride	ND	5.00	"
Naphthalene	ND	2.00	"
n-Propylbenzene	ND	1.00	"
Styrene	ND	1.00	"
1,1,1,2-Tetrachloroethane	ND	1.00	"
1,1,2,2-Tetrachloroethane	ND	1.00	"
Tetrachloroethene	ND	1.00	"
Toluene	ND	1.00	"
1,2,3-Trichlorobenzene	ND	1.00	"
1,2,4-Trichlorobenzene	ND	1.00	"
1,1,1-Trichloroethane	ND	1.00	"
1,1,2-Trichloroethane	ND	1.00	"
Trichloroethene	ND	1.00	"
Trichlorofluoromethane	ND	1.00	"

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071301 - EPA 5035

##### Blank (1071301-BLK1)

Prepared & Analyzed: 07/16/01

1,2,3-Trichloropropane	ND	1.00	ug/kg							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	1.00	"							
o-Xylene	ND	1.00	"							
m,p-Xylene	ND	2.00	"							
Surr: 4-BFB	19.6		"	20.0		98.0	70-130			
Surr: 1,2-DCA-d4	16.8		"	20.0		84.0	70-130			
Surr: Dibromofluoromethane	17.2		"	20.0		86.0	70-130			
Surr: Toluene-d8	19.2		"	20.0		96.0	70-130			

##### LCS (1071301-BS1)

Prepared & Analyzed: 07/16/01

Benzene	20.4	1.00	ug/kg	20.0		102	80-135			
Chlorobenzene	19.9	1.00	"	20.0		99.5	80-135			
1,1-Dichloroethene	18.7	1.00	"	20.0		93.5	60-150			
Toluene	21.0	1.00	"	20.0		105	80-130			
Trichloroethene	20.1	1.00	"	20.0		100	70-135			
Surr: 4-BFB	20.5		"	20.0		102	70-130			
Surr: 1,2-DCA-d4	17.4		"	20.0		87.0	70-130			
Surr: Dibromofluoromethane	18.4		"	20.0		92.0	70-130			
Surr: Toluene-d8	18.9		"	20.0		94.5	70-130			

##### LCS Dup (1071301-BSD1)

Prepared & Analyzed: 07/16/01

Benzene	20.3	1.00	ug/kg	20.0		102	80-135	0.491	25	
Chlorobenzene	19.7	1.00	"	20.0		98.5	80-135	1.01	25	
1,1-Dichloroethene	18.8	1.00	"	20.0		94.0	60-150	0.533	25	
Toluene	20.7	1.00	"	20.0		104	80-130	1.44	25	
Trichloroethene	19.8	1.00	"	20.0		99.0	70-135	1.50	25	
Surr: 4-BFB	20.5		"	20.0		102	70-130			
Surr: 1,2-DCA-d4	17.3		"	20.0		86.5	70-130			
Surr: Dibromofluoromethane	18.5		"	20.0		92.5	70-130			
Surr: Toluene-d8	18.9		"	20.0		94.5	70-130			

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
 07/31/01 12:38

### Volatile Organic Compounds per EPA Method 8260B - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 1071301 - EPA 5035

##### Matrix Spike (1071301-MS1)

Source: P1G0208-01

Prepared & Analyzed: 07/16/01

Benzene	1810	83.7	ug/kg dry	1870	ND	96.8	60-135			
Chlorobenzene	1760	83.7	"	1870	ND	94.1	65-125			
1,1-Dichloroethene	1870	83.7	"	1870	ND	100	60-135			
Toluene	1870	83.7	"	1870	ND	100	60-125			
Trichloroethene	1730	83.7	"	1870	ND	92.5	60-125			
Surr: 4-BFB	19.5		"	18.7		104	70-130			
Surr: 1,2-DCA-d4	15.7		"	18.7		84.0	70-130			
Surr: Dibromofluoromethane	16.9		"	18.7		90.4	70-130			
Surr: Toluene-d8	17.9		"	18.7		95.7	70-130			

##### Matrix Spike Dup (1071301-MSD1)


Source: P1G0208-01

Prepared & Analyzed: 07/16/01

Benzene	1890	83.7	ug/kg dry	1870	ND	101	60-135	4.32	25	
Chlorobenzene	1830	83.7	"	1870	ND	97.9	65-125	3.90	25	
1,1-Dichloroethene	1950	83.7	"	1870	ND	104	60-135	4.19	25	
Toluene	1960	83.7	"	1870	ND	105	60-125	4.70	25	
Trichloroethene	1820	83.7	"	1870	ND	97.3	60-125	5.07	25	
Surr: 4-BFB	19.3		"	18.7		103	70-130			
Surr: 1,2-DCA-d4	15.5		"	18.7		82.9	70-130			
Surr: Dibromofluoromethane	16.7		"	18.7		89.3	70-130			
Surr: Toluene-d8	17.9		"	18.7		95.7	70-130			

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Bristol Environmental & Engineering  
2000 W. International Airport Rd. #C-1  
Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter

Reported:  
07/31/01 12:38

**Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control**

**North Creek Analytical - Portland**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1071402 - EPA 3550**

**Blank (1071402-BLK1)**

Prepared: 07/18/01 Analyzed: 07/20/01

Acenaphthene	ND	13.4	ug/kg							
Acenaphthylene	ND	13.4	"							
Anthracene	ND	13.4	"							
Benzo (a) anthracene	ND	13.4	"							
Benzo (a) pyrene	ND	13.4	"							
Benzo (b) fluoranthene	ND	13.4	"							
Benzo (ghi) perylene	ND	13.4	"							
Benzo (k) fluoranthene	ND	13.4	"							
Chrysene	ND	13.4	"							
Dibenzo (a,h) anthracene	ND	13.4	"							
Fluoranthene	ND	13.4	"							
Fluorene	ND	13.4	"							
Indeno (1,2,3-cd) pyrene	ND	13.4	"							
Naphthalene	ND	13.4	"							
Phenanthrene	ND	13.4	"							
Pyrene	ND	13.4	"							
Surr: Fluorene-d10	59.1		"	83.3		70.9	40-150			
Surr: Pyrene-d10	94.3		"	83.3		113	40-150			
Surr: Benzo (a) pyrene-d12	80.9		"	83.3		97.1	40-150			

**LCS (1071402-BS1)**

Prepared: 07/18/01 Analyzed: 07/20/01

Acenaphthene	145	13.4	ug/kg	167		86.8	33-139			
Benzo (a) pyrene	162	13.4	"	167		97.0	45-149			
Pyrene	142	13.4	"	167		85.0	39-138			
Surr: Fluorene-d10	76.8		"	83.3		92.2	40-150			
Surr: Pyrene-d10	96.4		"	83.3		116	40-150			
Surr: Benzo (a) pyrene-d12	87.9		"	83.3		106	40-150			

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Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

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
### Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1071402 - EPA 3550</b>									
<b>Matrix Spike (1071402-MS1)</b>		<b>Source: P1G0207-01</b>		<b>Prepared: 07/18/01</b>		<b>Analyzed: 07/20/01</b>			
Acenaphthene	152	13.4	ug/kg dry	190	ND	80.0	33-139		
Benzo (a) pyrene	172	13.4	"	190	ND	90.5	45-149		
Pyrene	157	13.4	"	190	ND	82.6	39-138		
Surr: Fluorene-d10	76.2		"	95.2		80.0	40-150		
Surr: Pyrene-d10	104		"	95.2		109	40-150		
Surr: Benzo (a) pyrene-d12	90.6		"	95.2		95.2	40-150		
<b>Matrix Spike Dup (1071402-MSD1)</b>		<b>Source: P1G0207-01</b>		<b>Prepared: 07/18/01</b>		<b>Analyzed: 07/20/01</b>			
Acenaphthene	153	13.4	ug/kg dry	190	ND	80.5	33-139	0.656	60
Benzo (a) pyrene	175	13.4	"	190	ND	92.1	45-149	1.73	60
Pyrene	157	13.4	"	190	ND	82.6	39-138	0.00	60
Surr: Fluorene-d10	82.9		"	95.2		87.1	40-150		
Surr: Pyrene-d10	106		"	95.2		111	40-150		
Surr: Benzo (a) pyrene-d12	94.0		"	95.2		98.7	40-150		

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 Anchorage, AK 99502-1116

Project: Amchitka  
 Project Number: 210901, PO# 21090  
 Project Manager: Anne Krarawetter

Reported:  
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### Percent Dry Weight (Solids) per Standard Methods - Quality Control

#### North Creek Analytical - Portland

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1071131 - Dry Weight</b>										
<b>Duplicate (1071131-DUP1)</b>	<b>Source: P1G0120-01</b>									
% Solids	86.7	1.00 % by Weight			87.2			0.575	20	
<b>Duplicate (1071131-DUP2)</b>	<b>Source: P1G0120-02</b>									
% Solids	77.5	1.00 % by Weight			74.5			3.95	20	
<b>Duplicate (1071131-DUP3)</b>	<b>Source: P1G0120-03</b>									
% Solids	73.4	1.00 % by Weight			76.1			3.61	20	
<b>Duplicate (1071131-DUP4)</b>	<b>Source: P1G0064-03</b>									
% Solids	98.6	1.00 % by Weight			98.9			0.304	20	
<b>Duplicate (1071131-DUP5)</b>	<b>Source: P1G0064-04</b>									
% Solids	95.1	1.00 % by Weight			95.2			0.105	20	

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Anchorage, AK 99502-1116

Project: Amchitka  
Project Number: 210901, PO# 21090  
Project Manager: Anne Krarawetter


**Reported:**  
07/31/01 12:38

### Notes and Definitions

- P-02 Results reported on 'As Received' basis.
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.
- Q-14 The Spike Recovery and/or RPD is outside of control limits due to a non-homogeneous sample matrix.
- S-07 Surrogate recovery is out of control limits. QA criteria are met when one surrogate is within control limits.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Portland

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

Jerry Orlando, Project Manager/QA 

**North Creek Analytical, Inc.**  
**Environmental Laboratory Network**

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